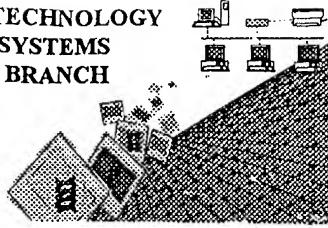# RAW SEQUENCE LISTING
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Application Serial Number: US/10/731,642

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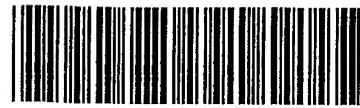
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RAW SEQUENCE LISTING   DATE: 12/30/2003
PATENT APPLICATION: US/10/731,642   TIME: 11:57:35

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Output Set: N:\CRF4\12302003\J731642.raw

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 3 <110> APPLICANT: MENE-SAFFRANE, Laurent
 4        ESQUERRE-TUGAYE, Marie-Therese
 5        FOURNIER, Joelle
 6        BEFFA, Roland
 7        GROSJEAN-COURNOYER Marie-Claire
 9 <120> TITLE OF INVENTION: LIPOXYGENASE OVEREXPRESSION IN PLANTS
10        AND REDUCTION IN PLANT SENSITIVITY TO
11        DISEASES AND TO ATTACKS FROM PATHOGENIC
12        ORGANISMS
14 <130> FILE REFERENCE: A36097-PCT-USA-A 072667.0192
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Does Not Comply Corrected Diskette Needed
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C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/731,642
C--> 17 <141> CURRENT FILING DATE: 2003-12-08
     19 <150> PRIOR APPLICATION NUMBER: PCT/FR02/01943
     20 <151> PRIOR FILING DATE: 2002-06-06
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W--> 22 French Patent Application No. filed June 7, 2001 and French Patent Application
W--> 23 No. FR 01/14358 filed November 7, 2001
     25 <150> PRIOR APPLICATION NUMBER: FR 01/07470
     26 <151> PRIOR FILING DATE: 2001-06-07
     28 <150> PRIOR APPLICATION NUMBER: FR 01/14358
     29 <151> PRIOR FILING DATE: 2001-11-07
     31 <160> NUMBER OF SEQ ID NOS: 6
     33 <170> SOFTWARE: Custom
     35 <210> SEQ ID NO: 1
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     37 <212> TYPE: PRT
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     40 <300> PUBLICATION INFORMATION:
     41 <308> DATABASE ACCESSION NO: X84040
W--> 43 <300> PUBLICATION INFORMATION: 1
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Mandatory, if <308> is shown then <309> must be inserted with a response.
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50 Phe Thr Asp Ile Asn Ala Ser Val Leu Asp Gly Val Leu Glu Phe Leu
51          35              40              45
53 Gly Arg Arg Val Ser Leu Glu Leu Ile Ser Ser Val Asn Ala Asp Pro
54      50              55              60
56 Ala Asn Gly Leu Gln Gly Lys Arg Ser Lys Ala Ala Tyr Leu Glu Asn
57  65              70              75              80
59 Trp Leu Thr Asn Ser Thr Pro Ile Ala Ala Gly Glu Ser Ala Phe Arg
60              85              90              95
62 Val Thr Phe Asp Trp Asp Asp Glu Glu Phe Gly Val Pro Gly Ala Phe
63          100             105             110
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RAW SEQUENCE LISTING   DATE: 12/30/2003
PATENT APPLICATION: **US/10/731,642**   TIME: 11:57:35

Input Set : **A:\PTO.FG.txt**
Output Set: **N:\CRF4\12302003\J731642.raw**

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 69         130                 135                 140
 71 Trp Val Tyr Pro Ala Asn Lys Tyr Lys Ser Asp Arg Ile Phe Phe Ala
 72 145                 150                 155                 160
 74 Asn Gln Ala Tyr Leu Pro Ser Glu Thr Pro Asp Thr Leu Arg Lys Tyr
 75                 165                 170                 175
 77 Arg Glu Asn Glu Leu Val Thr Leu Arg Gly Asp Gly Thr Gly Lys Leu
 78         180                 185                 190
 80 Glu Glu Trp Asp Arg Val Tyr Asp Tyr Ala Tyr Tyr Asn Asp Leu Gly
 81         195                 200                 205
 83 Asp Pro Asp Lys Gly Gln Asp Leu Ser Arg Pro Val Leu Gly Gly Ser
 84         210                 215                 220
 86 Ser Glu Tyr Pro Tyr Pro Arg Arg Gly Arg Thr Gly Arg Lys Pro Thr
 87 225                 230                 235                 240
 89 Lys Thr Asp Pro Asn Ser Glu Ser Arg Ile Pro Leu Leu Met Ser Leu
 90                 245                 250                 255
 92 Asp Ile Tyr Val Pro Arg Asp Glu Arg Phe Gly His Ile Lys Leu Ser
 93         260                 265                 270
 95 Asp Phe Leu Thr Phe Ala Leu Lys Ser Ile Val Gln Leu Leu Leu Pro
 96         275                 280                 285
 98 Glu Phe Lys Ala Leu Phe Asp Ser Thr His Asn Glu Phe Asp Ser Phe
 99         290                 295                 300
101 Glu Asp Val Leu Lys Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln Gly
102 305                 310                 315                 320
104 Pro Leu Leu Lys Ala Ile Thr Asp Ser Ile Pro Leu Glu Ile Leu Lys
105                 325                 330                 335
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116 Gln Glu Phe Pro Pro Lys Ser Lys Leu Asp Pro Lys Ile Tyr Gly Asn
117 385                 390                 395                 400
119 Gln Asn Ser Thr Ile Thr Arg Glu Gln Ile Glu Asp Lys Leu Asp Gly
120                 405                 410                 415
122 Leu Thr Ile Asp Glu Ala Ile Lys Thr Asn Arg Leu Phe Ile Leu Asn
123         420                 425                 430
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126         435                 440                 445
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129         450                 455                 460
131 Gly Thr Leu Lys Pro Ser Ala Ile Glu Leu Ser Leu Pro His Pro Asp
132 465                 470                 475                 480
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135                 485                 490                 495
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144      530              535              540
146 Leu His Pro Ile Tyr Lys Leu Leu His Pro His Phe Arg Glu Thr Met
147 545              550              555              560
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152 Leu Glu Leu Thr Val Phe Pro Ala Lys Tyr Ser Met Glu Met Ser Ala
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155 Val Val Tyr Lys Asp Trp Val Phe Pro Glu Gln Ala Leu Pro Thr Asp
156          595              600              605
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162 625              630              635              640
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165              645              650              655
167 Tyr Lys Ser Asp Asp Ala Val Gln Lys Asp Thr Glu Leu Gln Ala Trp
168          660              665              670
170 Trp Lys Glu Leu Arg Glu Glu Gly His Gly Asp Lys Lys Asp Glu Pro
171          675              680              685
173 Trp Trp Pro Lys Met Gln Thr Val Gln Glu Leu Ile Asp Ser Cys Thr
174      690              695              700
176 Ile Thr Ile Trp Ile Ala Ser Ala Leu His Ala Ala Val Asn Phe Gly
177 705              710              715              720
179 Gln Tyr Pro Tyr Ala Gly Tyr Leu Pro Asn Arg Pro Thr Leu Ser Arg
180              725              730              735
182 Asn Phe Met Pro Glu Pro Gly Ser Pro Glu Tyr Glu Glu Leu Lys Thr
183          740              745              750
185 Asn Pro Asp Lys Val Phe Leu Lys Thr Ile Thr Pro Gln Leu Gln Thr
186          755              760              765
188 Leu Leu Gly Ile Ser Leu Ile Glu Ile Leu Ser Arg His Ser Ser Asp
189      770              775              780
191 Thr Leu Tyr Leu Gly Gln Arg Glu Ser Pro Glu Trp Thr Lys Asp Gln
192 785              790              795              800
194 Glu Pro Leu Ser Ala Phe Ala Arg Phe Gly Lys Lys Leu Ser Asp Ile
195              805              810              815
197 Glu Asp Gln Ile Met Gln Met Asn Val Asp Glu Lys Trp Lys Asn Arg
198          820              825              830
200 Ser Gly Pro Val Lys Val Pro Tyr Thr Leu Leu Phe Pro Thr Ser Glu
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228 <222>  LOCATION: (3138)..(3390)
229 <223>  OTHER INFORMATION: Nos terminator
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236 agcacgacac gcttgtctac tccaaaaata tcaaagatac agtctcagaa gaccaaaggg 180
238 caattgagac ttttcaacaa agggtaatat ccggaaacct cctcggattc cattgcccag 240
240 ctatctgtca ctttattgtg aagatagtgg aaaaggaagg tggctcctac aaatgccatc 300
242 attgcgataa aggaaaggcc atcgttgaag atgcctctgc cgacagtggt cccaaagatg 360
244 gaccccacc cacgaggagc atcgtggaaa aagaagacct tccaaccacg tcttcaaagc 420
246 aagtggattg atgtgatatc tccactgacg taagggatga cgcacaatcc cactatcctt 480
248 cgcaagaccc ttcctcctat aaggaagttc atttcatttg gagaggacac gcggtaccca 540
250 aa atg ttt ctg gag aag att gtg gat gca atc aca ggg aaa gat gat    587
251    Met Phe Leu Glu Lys Ile Val Asp Ala Ile Thr Gly Lys Asp Asp
252    1               5                   10                  15
254 gga aaa aag gta aaa gga aca gtg gtt ttg atg aag aaa aat gtt ttg    635
255 Gly Lys Lys Val Lys Gly Thr Val Val Leu Met Lys Lys Asn Val Leu
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258 gat ttt act gat att aat gcc tca gtt ctt gat gga gtt ctt gag ttc    683
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260              35                  40                  45
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263 Leu Gly Arg Arg Val Ser Leu Glu Leu Ile Ser Ser Val Asn Ala Asp
264          50                  55                  60
266 cct gca aat ggt tta caa ggg aaa cgc agc aaa gca gca tat ttg gag    779
267 Pro Ala Asn Gly Leu Gln Gly Lys Arg Ser Lys Ala Ala Tyr Leu Glu
268      65                  70                  75
270 aac tgg cta aca aat agc acc cca ata gca gca ggt gaa tca gca ttt    827
271 Asn Trp Leu Thr Asn Ser Thr Pro Ile Ala Ala Gly Glu Ser Ala Phe
272 80                  85                  90                  95
274 aga gtc aca ttt gat tgg gat gat gag gaa ttt gga gtt cca gga gca    875
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276              100                 105                 110
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290 gcg aat cag gct tat cta cca agt gaa aca cca gac aca ttg cga aaa    1067
291 Ala Asn Gln Ala Tyr Leu Pro Ser Glu Thr Pro Asp Thr Leu Arg Lys
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294 tac aga gaa aat gaa tta gta acc tta aga gga gat gga act gga aag    1115
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303 Gly Asp Pro Asp Lys Gly Gln Asp Leu Ser Arg Pro Val Leu Gly Gly
304                 210                 215                 220
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307 Ser Ser Glu Tyr Pro Tyr Pro Arg Arg Gly Arg Thr Gly Arg Lys Pro
308         225                 230                 235
310 acc aaa aca gat cct aat tcc gag agc agg att cca ttg ctt atg agc    1307
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312 240                 245                 250                 255
314 tta gac ata tat gtg cca agg gac gag cga ttt ggt cat ata aag ttg    1355
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327 Phe Glu Asp Val Leu Lys Leu Tyr Glu Gly Gly Ile Lys Leu Pro Gln
328 305                 310                 315
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331 Gly Pro Leu Leu Lys Ala Ile Thr Asp Ser Ile Pro Leu Glu Ile Leu
332 320                 325                 330                 335
334 aaa gaa ctc ctt cga agt gat ggt gaa ggc cta ttt aag tac cca act    1595
335 Lys Glu Leu Leu Arg Ser Asp Gly Glu Gly Leu Phe Lys Tyr Pro Thr
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/30/2003
PATENT APPLICATION: US/10/731,642   TIME: 11:57:36

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\12302003\J731642.raw

<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 22

VERIFICATION SUMMARY   DATE: 12/30/2003
PATENT APPLICATION: **US/10/731,642**   TIME: 11:57:36

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Output Set: **N:\CRF4\12302003\J731642.raw**

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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:23 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
L:43 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:1